

## EAST Search History

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|--------|---|---|------------------|---------|------------------|
| L1    | 162942 | (light\$3 adj emitt\$3 adj diode) or (light\$3-emitt\$3 adj diode) same ((thermic or thermal or heat) with (distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with uniform\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:27 |
| L2    | 21404  | (resistor same diode) and 1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:02 |
| L3    | 108    | ((distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with uniform\$3) same output\$4) and 2   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:07 |
| L4    | 66     | ((distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with uniform\$3) same (energy or voltage or current) and 3   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:37 |
| L5    | 1098   | ((distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with uniform\$3) same output\$4) and 1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:07 |
| L6    | 320    | ((distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with uniform\$3) same (energy or voltage or current) and 5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:07 |
| L7    | 0      | (netlist or (net adj list) or net-list) and 6   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 10:08 |
| L8    | 0      | (netlist or (net adj list) or net-list) and 5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:08 |
| L9    | 42     | (netlist or (net adj list) or net-list) and 1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:08 |
| L10   | 0      | ((distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with (energy or voltage or current)) and 9   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:09 |
| L11   | 1      | ((distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) same (energy or voltage or current)) and 9   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:10 |

## EAST Search History

|     |        |   |                                    |    |    |                  |
|-----|--------|---|------------------------------------|----|----|------------------|
| L12 | 162942 | (light\$3 adj emitt\$3 adj diode) or (light\$3-emitt\$3 adj diode) and "716"/\$.ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:28 |
| L13 | 51     | ((light\$3 adj emitt\$3 adj diode) or (light\$3-emitt\$3 adj diode)) and "716"/\$.ccls.   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:28 |
| L14 | 33     | chip and 13   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:29 |
| L15 | 11     | (netlist or (net adj list) or net-list) and 14  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:44 |
| L16 | 0      | ((distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with uniform\$3) same (energy or voltage or current or thermal or thermistic or heat\$3)) and 15 | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:39 |
| L17 | 9      | (energy or voltage or current or thermal or thermistic or heat\$3) and 15   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 11:22 |
| L18 | 122    | (energy or voltage or current or thermal or thermistic or heat\$3) with isotherm\$5 and 1   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 10:13 |
| L19 | 122    | ((energy or voltage or current or thermal or thermistic or heat\$3) with isotherm\$5) and 1   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:44 |
| L20 | 0      | (netlist or (net adj list) or net-list) and 19  | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:59 |
| L21 | 34     | list and 19   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:48 |
| L22 | 0      | "716"/\$.ccls. and 19   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:50 |
| L23 | 0      | "703"/\$.ccls. and 19   | US-PGPUB; USPAT; EPO; JPO; DERWENT | OR | ON | 2006/02/22 08:50 |

## EAST Search History

|     |      |   |   |    |    |                  |
|-----|------|---|---|----|----|------------------|
| L24 | 188  | ((energy or voltage or current or thermal or thermistic or heat\$3) same isotherm\$5) and 1   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:39 |
| L25 | 0    | "716"/\$.ccls. and 24   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:08 |
| L26 | 0    | "703"/\$.ccls. and 24   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 08:50 |
| L27 | 0    | (netlist or (net adj list) or net-list) and 24  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 08:50 |
| L28 | 85   | ((computer adj (aid\$3 or assist\$3) adj design\$3) or (computer-(aid\$3 or assist\$3) adj design\$3) or (computer-aid\$3 adj design\$3) or CAD) and 24 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 08:52 |
| L29 | 0    | (netlist or (net adj list) or net-list) and ((energy or voltage or current or thermal or thermistic or heat\$3) with isotherm\$5)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:00 |
| L30 | 0    | (netlist or (net adj list) or net-list) and ((energy or voltage or current or thermal or thermistic or heat\$3) same isotherm\$5)                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:00 |
| L31 | 0    | (netlist or (net adj list) or net-list) and ((energy or voltage or current or thermal or thermistic or heat\$3) and isotherm\$5)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:01 |
| L32 | 0    | (netlist or (net adj list) or net-list) and (energy or voltage or current or thermal or thermistic or heat\$3) and isotherm\$5                          | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:01 |
| L33 | 3707 | (netlist or (net adj list) or net-list or net) and (energy or voltage or current or thermal or thermistic or heat\$3) and isotherm\$5                   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:39 |
| L34 | 65   | 1 and 33  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:02 |
| L35 | 0    | "716"/\$.ccls. and 34   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:20 |

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|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| L36 | 0    | "703"/\$.ccls. and 34  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:21 |
| L37 | 1893 | (netlist or (net adj list) or net-list or net) and ((energy or voltage or current or thermal or thermistic or heat\$3) same isotherm\$5) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:24 |
| L38 | 57   | ((contour or plot) same output\$4) and 37  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:34 |
| L39 | 0    | "716"/\$.ccls. and 37  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:20 |
| L40 | 8    | "703"/\$.ccls. and 37  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:21 |
| L41 | 81   | ((netlist or (net adj list) or net-list or net) with (simulat\$3 or execut\$3)) and 37   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:25 |
| L42 | 0    | (DXF or (drawing adj exchange adj format)) and 41  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:43 |
| L43 | 75   | (layout or lay-out or (lay adj out)) and 41  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:28 |
| L44 | 75   | layer and 43   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:29 |
| L45 | 71   | (layer near6 (number or name or id or identifi\$6)) and 44   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:30 |
| L46 | 0    | (layer near6 (name or id or identifi\$6)) and 44   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:45 |
| L47 | 21   | ((contour or plot) same output\$4) and 45  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:34 |

## EAST Search History

|     |     |   |   |    |    |                  |
|-----|-----|---|---|----|----|------------------|
| L48 | 0   | (netlist or (net adj list) or net-list) and (energy or voltage or current or thermal or thermistic or heat\$3) and isotherm\$5            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:40 |
| L49 | 0   | (netlist or (net adj list) or net-list) and (energy or voltage or current or thermal or thermistic or heat\$3 or optical) and isotherm\$5 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:40 |
| L50 | 0   | (netlist or (net adj list) or net-list) and isotherm\$5   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:40 |
| L51 | 658 | DXF or (drawing adj exchange adj format)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:44 |
| L52 | 352 | scal\$3 and 51  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:07 |
| L53 | 32  | (layer near6 (name or id or identifi\$6)) and 52  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:02 |
| L54 | 0   | (resistor and diode) and 53   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:09 |
| L55 | 1   | (resistor or diode) and 53  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:46 |
| L56 | 130 | ((netlist or (net adj list) or net-list) with scal\$4)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:10 |
| L57 | 0   | 51 and 56   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:08 |
| L58 | 3   | (resistor and diode) and 56   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:12 |
| L59 | 133 | (netlist or (net adj list) or net-list) with (scal\$4 or calibrat\$3)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:11 |

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|     |        |   |   |    |     |                  |
|-----|--------|---|---|----|-----|------------------|
| L60 | 204    | (netlist or (net adj list) or net-list) with (scal\$4 or compact\$3 or calibrat\$3)         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 10:12 |
| L61 | 6      | (resistor and diode) and 60   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 10:12 |
| L62 | 5      | (energy or voltage or thermal or thermistic or heat\$3) and 61                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 10:14 |
| L63 | 2      | (2-dimension\$2 or two-dimension\$3 or \$4dimension\$2 or coordinate) and 62                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 10:31 |
| L64 | 4      | ((energy or voltage or current or thermal or thermistic or heat\$3) same uniform\$3) and 60 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 10:47 |
| L65 | 19     | ((energy or voltage or current or thermal or thermistic or heat\$3) and uniform\$3) and 60  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 10:47 |
| L66 | 3      | (output\$3 with (plot or contour)) and 65   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 10:48 |
| L67 | 2      | ("6370674").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/22 11:22 |
| L69 | 2      | ("6834380").PN.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | OFF | 2006/02/22 11:46 |
| L70 | 1      | (simulat\$3 with netlist) and 69  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 11:48 |
| L71 | 1      | ((simulat\$3 or execut\$3) same netlist) and 69   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 11:51 |
| S1  | 149465 | (light adj emitting adj diode) or (light-emitting adj diode)                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON  | 2006/02/22 07:49 |

## EAST Search History

|    |        |  |   |    |    |                  |
|----|--------|--|---|----|----|------------------|
| S2 | 149487 | (light\$3 adj emitting adj diode) or<br>(light\$3-emitting adj diode)                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/16 16:38 |
| S3 | 503949 | (light\$3 adj emitting adj diode) or<br>(light\$3-emitting adj diode) or LED<br>or VLED or VSLED | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 07:50 |

## EAST Search History

| Ref # | Hits | Search Query   | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|--|---|------------------|---------|------------------|
| S48   | 1294 | downey.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/16 16:28 |
| S49   | 10   | ebong.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/16 16:35 |
| S50   | 1304 | S48 or S49   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/16 16:35 |
| S51   | 218  | ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode) or \$2LED) and S50 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/16 16:40 |
| S52   | 10   | ebong.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/16 16:42 |
| S53   | 10   | ebong.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/17 08:42 |
| S54   | 1294 | downey.in.   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/17 08:43 |
| S55   | 10   | ebong.in.  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/17 08:43 |
| S56   | 1304 | S54 or S55   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/17 08:43 |
| S57   | 218  | ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode) or \$2LED) and S56 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/17 14:25 |
| S58   | 0    | (netlist or (net adj list) or net-list) and S57  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR               | ON      | 2006/02/22 08:08 |



## EAST Search History

|     |       |   |   |    |    |                  |
|-----|-------|---|---|----|----|------------------|
| S59 | 5     | ((computer near2 aid\$) or CAD or autocad or dw2000) and S56  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:17 |
| S60 | 953   | ((computer near2 aid\$3) or CAD or autocad or dw2000) and (current near6 (optimiz\$5 or map\$4 or crowd\$3))              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:12 |
| S61 | 107   | (netlist or (net adj list) or net-list) and S60   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:19 |
| S62 | 0     | (light\$3 near4 emitt\$3) and S61   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:02 |
| S63 | 0     | (light\$3 near4 diode) and S61  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:01 |
| S64 | 0     | (light\$3-emitt\$3) and S61   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:02 |
| S65 | 0     | (light-emitt\$3) and S61  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:02 |
| S66 | 13745 | ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode) or \$2LED) and (current near6 (optimiz\$5 or map\$4)) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:13 |
| S67 | 783   | ((simulat\$3 or model\$3) near4 current) and S66  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:50 |
| S68 | 52    | (uniform\$3 near4 current) and S67  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:50 |
| S69 | 7     | ((computer near2 aid\$) or CAD or autocad or dw2000) and S68  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:07 |
| S70 | 34    | (netlist or (net adj list) or net-list) and S67   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:04 |

## EAST Search History

|     |      |  |   |    |    |                  |
|-----|------|--|---|----|----|------------------|
| S71 | 2    | (netlist or (net adj list) or net-list) and S68  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:53 |
| S72 | 3002 | contour with current   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:49 |
| S73 | 160  | ((simulat\$3 or model\$3) near4 current) and S72   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:50 |
| S74 | 20   | (uniform\$3 near4 current) and S73   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 09:51 |
| S75 | 1    | (netlist or (net adj list) or net-list) and S73  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:06 |
| S76 | 2635 | (netlist or (net adj list) or net-list) and ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode) or \$2LED) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:15 |
| S77 | 528  | uniform\$3 and S76   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:07 |
| S78 | 342  | simulat\$3 and S77   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:07 |
| S79 | 71   | (uniform\$3 with (power or voltage or thermal or optical)) and S76   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:32 |
| S80 | 51   | simulat\$3 and S79   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:09 |
| S81 | 0    | contour\$3 and S80   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:10 |
| S82 | 43   | layer and S80  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:11 |

## EAST Search History

|     |        |  |   |    |    |                  |
|-----|--------|--|---|----|----|------------------|
| S83 | 0      | ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode)) and S82 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:14 |
| S84 | 535136 | ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode) or LED)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:40 |
| S85 | 346    | (netlist or (net adj list) or net-list) and S84                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:15 |
| S86 | 4      | (uniform\$3 with (power or voltage or thermal or optical)) and S85           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:16 |
| S87 | 17     | (uniform\$3 same (power or voltage or thermal or optical)) and S85           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:39 |
| S88 | 45     | (distribut\$3 with (power or voltage or thermal or optical)) and S85         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:40 |
| S89 | 5      | ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode)) and S88 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:05 |
| S90 | 0      | ((computer near2 aid\$) or CAD or autocad or dw2000) and S89                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 15:41 |
| S91 | 125    | ((computer near2 aid\$) or CAD or autocad or dw2000) and S85                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 10:48 |
| S92 | 9      | homogeneous\$3 and S91   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:05 |
| S93 | 1225   | homogeneous\$3 near4 current   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:12 |
| S94 | 29     | ((light\$3 adj emitting adj diode) or (light\$3-emitting adj diode)) and S93 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:05 |

## EAST Search History

|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S95      | 0    | (netlist or (net adj list) or net-list) and S94   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:14 |
| S96      | 0    | ((computer near2 aid\$) or CAD or autocad or dw2000) and S94                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:07 |
| S97      | 2    | (netlist or (net adj list) or net-list) and S93   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:19 |
| S98      | 2    | ((computer near2 aid\$) or CAD or autocad or dw2000) and S97                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:26 |
| S99      | 1160 | (homogeneous\$3 or uniform\$3) with current with (spread\$3 or extent\$3 or expans\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:18 |
| S10<br>0 | 2    | (netlist or (net adj list) or net-list) and S99   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:15 |
| S10<br>1 | 585  | (homogeneous\$3 or uniform\$3) with electric with (spread\$3 or extent\$3 or expans\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:19 |
| S10<br>2 | 0    | (netlist or (net adj list) or net-list) and S101  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:19 |
| S10<br>3 | 916  | (homogeneous\$3 or uniform\$3) with power with (spread\$3 or extent\$3 or expans\$3)    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:23 |
| S10<br>4 | 1    | (netlist or (net adj list) or net-list) and S103  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:24 |
| S10<br>5 | 386  | (homogeneous\$3 or uniform\$3) with voltage with (spread\$3 or extent\$3 or expans\$3)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:24 |
| S10<br>6 | 0    | (netlist or (net adj list) or net-list) and S105  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:08 |

## EAST Search History

|          |       |  |   |    |    |                  |
|----------|-------|--|---|----|----|------------------|
| S10<br>7 | 4479  | (homogeneous\$3 or uniform\$3)<br>with thermal with (spread\$3 or<br>extent\$3 or expans\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:25 |
| S10<br>8 | 0     | (netlist or (net adj list) or net-list)<br>and S107  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:24 |
| S10<br>9 | 47822 | (homogeneous\$3 or uniform\$3)<br>with current   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:14 |
| S11<br>0 | 50    | (netlist or (net adj list) or net-list)<br>and S109  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:25 |
| S11<br>1 | 23    | ((computer near2 aid\$) or CAD or<br>autocad or dw2000) and S110                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 11:26 |
| S11<br>2 | 6     | thermal and S111   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 12:52 |
| S11<br>3 | 656   | DXF or (drawing adj exchange adj<br>format)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:26 |
| S11<br>4 | 15    | (voltage near4 drop) and S113  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:04 |
| S11<br>5 | 398   | (voltage or current) and S113  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:05 |
| S11<br>6 | 16    | ((contour or curve) with current)<br>and S115  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:21 |
| S11<br>7 | 5     | (netlist or (net adj list) or net-list)<br>and S115  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:21 |
| S11<br>8 | 2     | S109 and S113  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:13 |

## EAST Search History

|          |        |   |   |    |    |                  |
|----------|--------|---|---|----|----|------------------|
| S11<br>9 | 188756 | (homogeneous\$3 or uniform\$3)<br>with (current or voltage or power or<br>thermal or optical) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:20 |
| S12<br>0 | 12     | S113 and S119   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:15 |
| S12<br>1 | 344139 | (homogeneous\$3 or uniform\$3)<br>same (current or voltage or power<br>or thermal or optical) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 13:20 |
| S12<br>2 | 305    | (netlist or (net adj list) or net-list)<br>and S121   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:07 |
| S12<br>3 | 27     | ((contour or curve or plot) with<br>current) and S122   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 14:21 |
| S12<br>4 | 39     | ((contour or curve or plot) with<br>(voltage or power or current)) and<br>S122                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 14:30 |
| S12<br>6 | 0      | ((light\$3 adj emitting adj diode) or<br>(light\$3-emitting adj diode) or LED)<br>and S124    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:22 |
| S12<br>7 | 13     | ((contour or plot) with (voltage or<br>power or current)) and S122                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:06 |
| S12<br>8 | 6      | "6834380"   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:06 |
| S12<br>9 | 0      | ((netlist or (net adj list) or net-list)<br>with lines) and S128                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:11 |
| S13<br>0 | 1      | ((netlist or (net adj list) or net-list)<br>same lines) and S128                              | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:08 |
| S13<br>1 | 0      | (netlist or (net adj list) or net-list)<br>with ("\$0000" near3 lines)                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:15 |

## EAST Search History

|          |     |  |   |    |    |                  |
|----------|-----|--|---|----|----|------------------|
| S13<br>2 | 0   | (netlist or (net adj list) or net-list)<br>with ("70000" near3 lines)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:16 |
| S13<br>3 | 0   | (netlist or (net adj list) or net-list)<br>with (("60000" or "70000" or<br>"80000" or "90000" or "100000")<br>near3 lines)       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:32 |
| S13<br>4 | 2   | (netlist or (net adj list) or net-list)<br>with ("60000" or "70000" or<br>"80000" or "90000" or "100000")                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:19 |
| S13<br>5 | 8   | (netlist or (net adj list) or net-list)<br>same ("60000" or "70000" or<br>"80000" or "90000" or "100000")                        | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:41 |
| S13<br>6 | 190 | (netlist or (net adj list) or net-list)<br>near4 lines   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:21 |
| S13<br>7 | 5   | ((light\$3 adj emitting adj diode) or<br>(light\$3-emitting adj diode) or LED)<br>and S136                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 15:42 |
| S13<br>8 | 0   | (DXF or (drawing adj exchange adj<br>format)) and S136   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:24 |
| S13<br>9 | 0   | (netlist or (net adj list) or net-list)<br>with (("60,000" or "70,000" or "80,<br>000" or "90,000" or "100,000")<br>near3 lines) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 15:32 |
| S14<br>0 | 51  | (netlist or (net adj list) or net-list)<br>near6 records   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:15 |
| S14<br>1 | 445 | (netlist or (net adj list) or net-list)<br>and (orthogonal or rectangular or<br>right-angled) and map\$4                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:31 |
| S14<br>2 | 104 | (layer same map\$4) and S141   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:21 |
| S14<br>3 | 46  | (node and resistor and diode) and<br>S142  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:23 |

## EAST Search History

|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S14<br>4 | 0    | acal\$3 and S143  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:23 |
| S14<br>5 | 0    | (DXF or (drawing adj exchange adj<br>format)) and S143                                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:26 |
| S14<br>6 | 42   | format and S143   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:27 |
| S14<br>7 | 0    | tabular and S94   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:27 |
| S14<br>8 | 0    | csv and S146  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:28 |
| S14<br>9 | 42   | technology and S146   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:29 |
| S15<br>0 | 42   | physical and S149   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:29 |
| S15<br>1 | 36   | (physical near2 design) and S150  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/17 16:34 |
| S15<br>2 | 1792 | scal\$3 near4 (layout or lay-out or<br>(lay adj out))                                       | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:13 |
| S15<br>3 | 0    | scal\$3 near4 (layout or lay-out or<br>(lay adj out)) same (node and<br>resistor and diode) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 09:35 |
| S15<br>4 | 50   | scal\$3 near4 (layout or lay-out or<br>(lay adj out)) and node and resistor<br>and diode    | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:15 |
| S15<br>5 | 2    | (layer near4 number) and S154   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 11:59 |



## EAST Search History

|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S15<br>6 | 4    | (layer near6 (number or id or<br>identifi\$6)) and S154                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 12:13 |
| S15<br>7 | 98   | scal\$3 near4 (layout or lay-out or<br>(lay adj out)) and resistor and<br>diode | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 12:13 |
| S15<br>8 | 766  | (layer near6 (number or id or<br>identifi\$6)) same coordinate                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:07 |
| S15<br>9 | 4400 | (resistor or diode) same coordinate   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 12:14 |
| S16<br>0 | 1    | S157 and S159   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 12:17 |
| S16<br>1 | 2    | S152 and S159   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 12:17 |
| S16<br>2 | 2286 | scal\$3 near6 (layout or lay-out or<br>(lay adj out))                           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:11 |
| S16<br>3 | 4430 | (layout or lay-out or (lay adj out))<br>and node and resistor and diode         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:10 |
| S16<br>4 | 73   | S162 and S163   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:15 |
| S16<br>5 | 13   | coordinate and S164   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:21 |
| S16<br>6 | 9    | layer and S165  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:59 |
| S16<br>7 | 0    | forward adj slash adj resistor  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:45 |

## EAST Search History

|          |      |   |   |    |    |                  |
|----------|------|---|---|----|----|------------------|
| S16<br>8 | 0    | forward near2 slash near2 resistor                      | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:58 |
| S16<br>9 | 0    | back near2 slash near2 resistor                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:57 |
| S17<br>0 | 4375 | back near2 resistor                                     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:57 |
| S17<br>1 | 1571 | forward near2 resistor                                  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:58 |
| S17<br>2 | 59   | S170 and S171   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 13:58 |
| S17<br>3 | 6    | layer and S172  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:00 |
| S17<br>4 | 2873 | scal\$3 near2 coordinate                                | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:00 |
| S17<br>5 | 48   | resistor same diode and S174                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 08:02 |
| S17<br>6 | 3    | node and S175   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:01 |
| S17<br>7 | 2    | (layer near6 (number or id or<br>identifi\$6)) and S175 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 09:29 |
| S17<br>8 | 80   | (layer near3 (number or id or<br>identifi\$6)) and S174 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:16 |
| S17<br>9 | 3    | resistor and diode and S178                             | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:12 |

## EAST Search History

|          |       |  |   |    |    |                  |
|----------|-------|--|---|----|----|------------------|
| S18<br>0 | 11636 | (layout or lay-out or (lay adj out))<br>and resistor and diode                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:10 |
| S18<br>1 | 8650  | (scal\$3 or compact\$3) with (layout<br>or lay-out or (lay adj out))           | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:06 |
| S18<br>2 | 584   | resistor and diode and S181  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:13 |
| S18<br>3 | 3     | ((resistor or diode) same<br>(coordinate)) and S182                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:24 |
| S18<br>4 | 17    | ((resistor or diode) same<br>(coordinate or (\$4dimensional)))<br>and S182     | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:16 |
| S18<br>5 | 10    | (layer with (number or id or<br>identifi\$6)) and S184                         | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:16 |
| S18<br>6 | 4     | (netlist or (net adj list) or net-list)<br>and S185                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:28 |
| S18<br>7 | 0     | ((resistor or diode) with<br>(coordinate)) and S182                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:24 |
| S18<br>8 | 2     | ((resistor or diode) with<br>(coordinate)) and S181                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:26 |
| S18<br>9 | 11    | ((resistor or diode) with<br>(2-dimension\$2 or<br>two-dimension\$3)) and S181 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 14:28 |
| S19<br>0 | 13    | ((resistor or diode) same<br>(2-dimension\$2 or<br>two-dimension\$3)) and S181 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:09 |
| S19<br>1 | 1     | (netlist or (net adj list) or net-list)<br>and S190                            | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 15:39 |

## EAST Search History

|          |        |   |   |    |    |                  |
|----------|--------|---|---|----|----|------------------|
| S19<br>2 | 220    | (netlist or (net adj list) or net-list) and (distribut\$3 near4 uniform\$4)   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:03 |
| S19<br>3 | 109    | ((computer near3 aid\$3) or CAD or autocad or dw2000) and S192  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 15:41 |
| S19<br>4 | 0      | ((light\$3 adj emitt\$3 adj diode) or (light\$3-emitt\$3 adj diode)) and S193   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 15:43 |
| S19<br>5 | 27     | S181 and S193   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:04 |
| S19<br>6 | 9110   | (scal\$3 or compact\$3 or calibrat\$3) with (layout or lay-out or (lay adj out))  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:07 |
| S19<br>7 | 8966   | (scal\$3 or compact\$3 or calibrat\$3) with (layout or lay-out or (lay adj out) with size)  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:07 |
| S19<br>8 | 28     | S193 and S197   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:08 |
| S19<br>9 | 0      | ((resistor or diode) same (2-dimension\$2 or two-dimension\$3 or coordinate)) and S198  | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 10:30 |
| S20<br>0 | 24     | ((resistor or diode) and (2-dimension\$2 or two-dimension\$3 or coordinate)) and S198   | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/21 16:10 |
| S20<br>1 | 162942 | (light\$3 adj emitt\$3 adj diode) or (light\$3-emitt\$3 adj diode) same ((thermic or thermal or heat) with (distribut\$3 or spread\$3 or dispers\$3 or scatter\$3))                 | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 07:54 |
| S20<br>2 | 162942 | (light\$3 adj emitt\$3 adj diode) or (light\$3-emitt\$3 adj diode) same ((thermic or thermal or heat) with (distribut\$3 or spread\$3 or dispers\$3 or scatter\$3) with uniform\$3) | US-PGPUB;<br>USPAT;<br>EPO; JPO;<br>DERWENT | OR | ON | 2006/02/22 08:03 |